

# DM-CBL-8G-P

## DigitalMedia 8G™ Cable, plenum



- > 350 MHz ultra high-performance shielded CAT5e
- > Optimized for high-definition digital AV and Ethernet data networking applications
- > Precision manufactured and tested to exceed CAT5e specifications
- > Qualified for use wherever a high-quality shielded CAT5e is required
- > Ensures Crestron® guaranteed performance for DigitalMedia 8G+™ and Sonnex® Link
- > Highly recommended for use with HDBaseT™
- > Every spool is individually tested and certified
- > Available in plenum and non-plenum versions

Crestron® DigitalMedia 8G™ Cable (DM-CBL-8G-P) is a 350MHz-certified shielded twisted-pair (STP) cable that is engineered to deliver optimum performance for use in data networking and high-definition AV signal distribution applications. It is precision manufactured and tested to significantly exceed the CAT5e specifications for bandwidth, crosstalk, and interference rejection, and is qualified for use wherever a high-quality shielded CAT5e wire is required. DigitalMedia 8G Cable provides a complete Crestron-guaranteed wiring solution for use with DigitalMedia 8G+™ devices, and is also highly recommended for use with Sonnex® Multiroom Audio Systems, HDBaseT™, and other CAT5e based audio, video, and data distribution products.

### 350MHz Multimedia and Data-Grade Shielded CAT5e

For digital multimedia or Ethernet data networking, DM 8G® Cable provides the finest shielded CAT5e on the market. Every spool is individually certified to ANSI/TIA/EIA-568-B.2 Category 5e, and tested to 350 MHz bandwidth, ensuring ultimate performance for demanding AV and data network applications. Its high-quality 100% foil shield ensures very low EMI/RFI interference, preventing video signal interruption or loss of data — even in noisy environments. Foot markers printed on the cable's outer jacket make it easy to verify the exact length of each cable during installation.

### DigitalMedia 8G+™ HD AV Signal Distribution over One Wire

Crestron DigitalMedia™ (DM®) is the world's most evolved system solution for distributing uncompressed, high-definition digital video and audio throughout a home or commercial structure. DigitalMedia 8G+ is the latest generation of DM, providing a true one-wire transport for moving HD and Ultra HD video, high-bitrate 7.1 audio, high-speed Ethernet, and power over CAT5e. DigitalMedia 8G Cable is specially designed and pre-qualified for use with DM 8G+™ transmitters, receivers, and switchers. Compared to ordinary CAT5e, DM 8G Cable affords much higher performance margin to ensure a reliable installation every time.<sup>[1]</sup>

### HDBaseT™ Recommended

HDBaseT technology is a consumer electronic connectivity technology optimized for whole-home and commercial multimedia distribution. HDBaseT converges uncompressed full HD digital video, audio, Ethernet, power, and control signals through a single CAT5e cable. Crestron DM 8G Cable is ideally designed and tested for use with HDBaseT products.

### A Complete Crestron-Guaranteed Solution

Termination of DM 8G cable is accomplished using Crestron DM-8G-CONN shielded RJ45 type connectors. The **DM-8G-CONN** connector is specially designed to maintain maximum bandwidth and provide 100% shielding against interference to ensure consistent, reliable system performance. Quick and easy field-termination is facilitated using the **DM-8G-CRIMP** crimping tool.<sup>[2]</sup>

Crestron DM-CBL-8G-P cable is plenum-rated for installation in an environmental air handling space as typical for commercial applications. For non-plenum applications, use **DM-CBL-8G-NP**.

# DM-CBL-8G-P DigitalMedia 8G™ Cable, plenum

## SPECIFICATIONS

### Construction

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Four twisted pair, inner jacket, drain, shield, ripcord and overall jacket

### Electrical & Performance

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**Mutual Capacitance:** 17.1 pF / ft

**Velocity of Propagation:** 69%

**Propagation Delay Skew:** 45nS / 100 m

**DC Resistance:** 28.6 Ohms / 1000 ft maximum

**DC Resistance Unbalance of a Pair:** 5% maximum

**Capacitance Unbalance:** 330 pF / 100 m

**Characteristic Impedance:** 100 Ohms  $\pm$ 15% (1-250 MHz)

### (4) Twisted Pairs

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**Colors:** Blue/white, orange/white, green/white, brown/white

**Conductors:** 24 AWG x8 solid copper

**Insulation:** 0.0055 inch thick FEP

**Outer Diameter (per conductor):** 0.040 inch (1.016 mm) maximum

### Inner Jacket

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**Color:** White

**Material:** Low-smoke PVC

**Thickness:** 0.0135  $\pm$ 0.0015 inch

### Shield

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**Drain:** 26 AWG solid tin/copper

**Shield:** Aluminum foil (100% coverage)

### Outer Jacket

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**Color:** Blue

**Material:** Low-smoke PVC

**Thickness:** 0.018 inch

**Outer Diameter:** 0.244  $\pm$ 0.006 inch (6.2  $\pm$ 0.15 mm)

**Minimum Recommended Bend Radius:** 2.75 inches

**Maximum Pull Tension:** 25 lbf

### Rating

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NEC Article 800; UL Subject 444, Type CMP; CSA Type CMP;  
ANSI/TIA/EIA-568-B.2 Category 5e

## MODELS & ACCESSORIES

### Available Models

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**DM-CBL-8G-P-SP500:** DigitalMedia 8G™ Cable, plenum, 500 ft spool

**DM-CBL-8G-P-SP1000:** DigitalMedia 8G™ Cable, plenum, 1000 ft spool

### Available Accessories

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**DM-8G-CONN-100:** DigitalMedia 8G™ Cable Connector, 100-Pack

**DM-8G-CRIMP:** Crimping Tool for DM-8G-CONN

Notes:

1. Refer to the [Crestron DigitalMedia Design Guide, Doc. #4546](#) for complete DM system design guidelines.
2. All connectors and crimp tool sold separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

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